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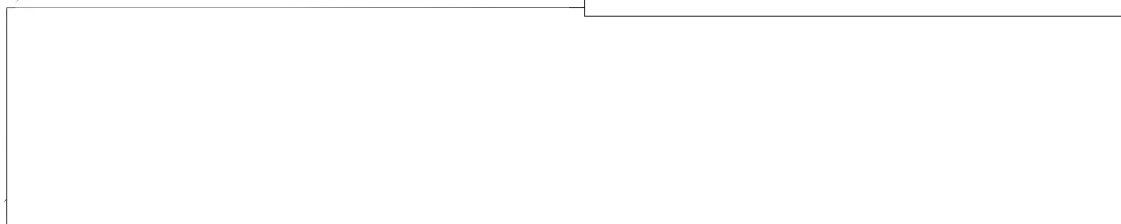
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DATE	22	2010		

FINAL TEST DATA  
ON  
CR-17 FOUR BAND  
COLLECTION RECEIVER

REPORT NO. 7630-F2

25X1

AUGUST 1960



25X1

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## FINAL TEST DATA ON CR-17 FOUR BAND COLLECTION RECEIVERS

The CR-17 receivers, Serial numbers 1 and 2, were aligned and checked. They were then operated for about two weeks with occasional checks being made on sensitivity, gain, and bandwidths. At the end of this life test point by point measurements were made of the various bandwidths and sensitivities. Dynamic ranges and compression characteristics were also checked. The results of these measurements are presented in the following tables and curves.

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REQUIRED RF INPUT LEVELS  
FOR TANGENTIAL OUTPUT SIGNAL  
CR-17 FOUR BAND COLLECTION RECEIVER  
SERIAL 1

BAND 1  
VIDEO GAIN  
38-40 db

BAND 2  
VIDEO GAIN  
28-40 db

<u>Frequency</u> <u>Mc</u>	<u>Signal Level</u> <u>For Tangential</u> <u>Output (uV)</u>	<u>Frequency</u> <u>MC</u>	<u>Signal Level</u> <u>For Tangential</u> <u>Output (uV)</u>	
	200 100		135 70	
	11 6		12 6	25X1
	10.5 5		12 6	
	9.5 5		12 6	25X1
	10 5		13 7	
	10 5		11 6	
	10 5		11.5 6	
	10 5		12 6	
	10 5		12 6	
	9.5 5		70 35	
	200 100			

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BAND 3  
VIDEO GAIN  
38-40 db

BAND 4  
VIDEO GAIN  
38-40 db

<u>Frequency</u> <u>MC</u>	<u>Signal Level</u> <u>For Tangential</u> <u>Output (uV)</u>		<u>Frequency</u> <u>MC</u>	<u>Signal Level</u> <u>For Tangential</u> <u>Output (uV)</u>		
	50	25		300	150	
	14	7		18	9	
	14	7		13.5	7	25X1
	15	7.5		13	7	
	14	7		14	7	25X1
	14	7		15	8	
	14	7		14	7	
	12	6		15	8	
	12	6		14	7	
	60	30		32	16	

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COMPRESSION CHARACTERISTICS  
 CR-17 FOUR BAND COLLECTION RECEIVER  
 SERIAL 1

## BAND 1

<u>Scope Gain For Const. Deflection mv/cm</u>	<u>Input Attenuation db</u>
1	62
2	59
5	54
10	50.5
20	46.5
50	36
50	20

## BAND 2

<u>Scope Gain For Const. Deflection mv/cm</u>	<u>Input Attenuation db</u>
1	62
2	60
5	56
10	52
20	48
50	37
50	20

## BAND 3

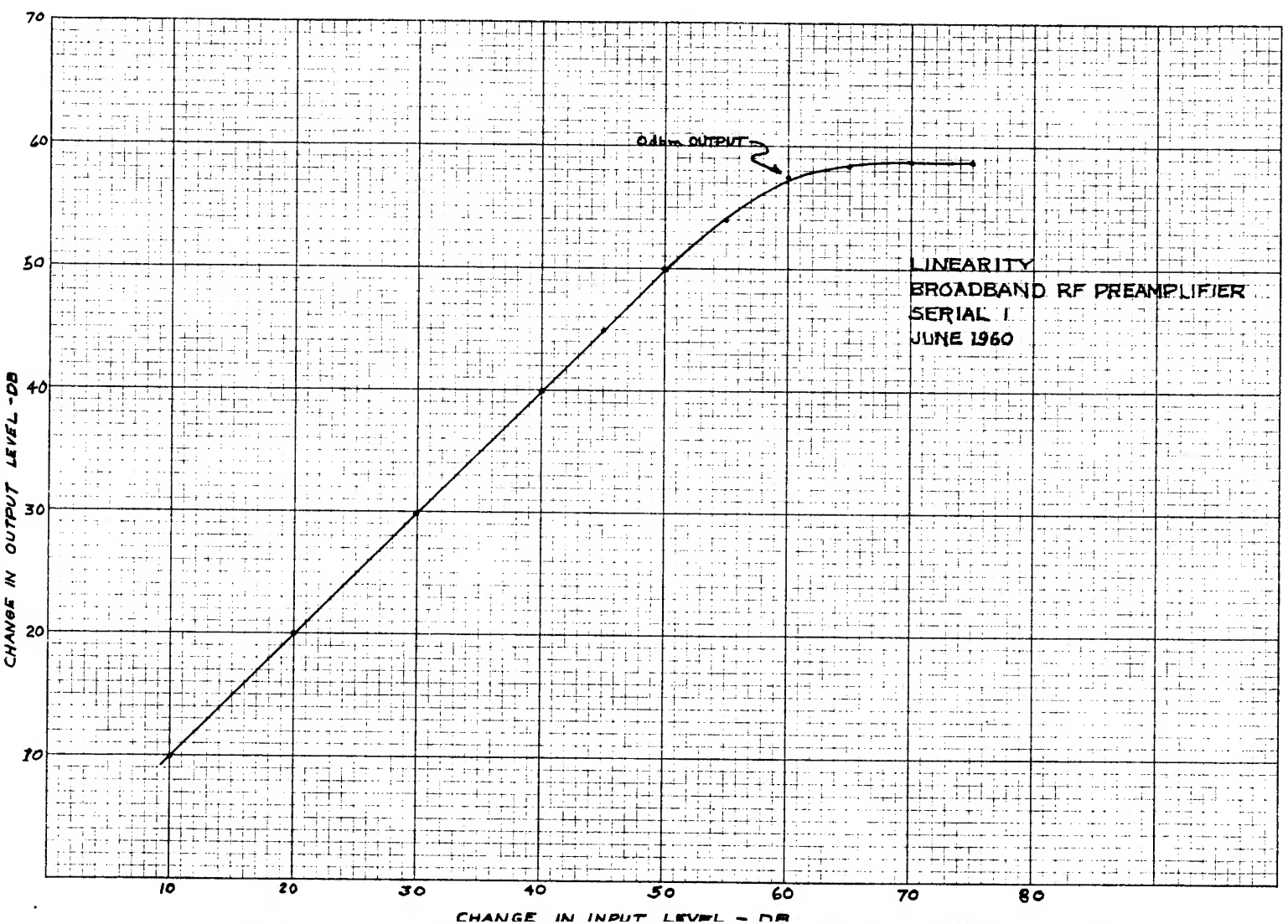
1	62
2	59
5	54
10	50.5
20	46
50	35
50	20

## BAND 4

1	62
2	59
5	55
10	51
20	47
50	34
50	20

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Next 3 Page(s) In Document Denied



REQUIRED RF INPUT LEVELS  
FOR TANGENTIAL OUTPUT SIGNAL,  
CR-17 FOUR BAND COLLECTION RECEIVER  
SERIAL 2

CH 1 VIDEO GAIN (38-40db)		CH 2 VIDEO GAIN (38-40 db)		
<u>f</u>	<u>Signal Level For Tangential Output (uV)</u>	<u>f</u>	<u>Signal Level For Tangential Output (uV)</u>	
	35	28	210	
	6.5	5.6	9.5	
	5.5	5.3	6	STAT
	6	6	6.8	
	5	5.5	7	STAT
	6	6.2	6.2	
	6	6.2	7.2	
	6	5.5	6.2	
	6	5.5	7	
	20	18	6.3	

CH 3 VIDEO GAIN (38-40 db)		CH 4 VIDEO GAIN (38-40 db)	
f	<u>Signal Level For Tangential Output (uV)</u>	f	<u>Signal Level For Tangential Output (uV)</u>
	150		100
	23		7.5
	6.8		5 STAT
	6.8		5
	7		5.8
	7		4.6
	7		4.6 STAT
	7		4.6
	6.8		4.6
	11		32
	70		
	1K		

COMPRESSION CHARACTERISTICS  
CR-17 FOUR BAND COLLECTION RECEIVER  
SERIAL 2

BAND 1		BAND 2	
Scope Gain For Const. Deflection mv/cm	Input Attenuation db	Scope Gain For Const. Deflection mv/cm	Input Attenuation db
1	62	1	62
2	59	2	60
5	54	5	56
10	50.5	10	52
20	46.5	20	48
50	36	50	37
50	20	50	20
BAND 3		BAND 4	
1	62	1	62
2	59	2	59
5	54	5	55
10	50.5	10	51
20	46	20	47
50	35	50	34
50	20	50	20

DEFLECTION REFERENCE - 3.2 cm

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Next 5 Page(s) In Document Denied